

AMENDMENTS TO THE CLAIMS:

In the Claims:

1. (Withdrawn) A method of manufacturing a heat sink comprising the steps of:
preparing a metal plate having a plurality of slits and a plurality of metal fins each having a heat receiving portion and a heat dissipating portion;
inserting respective parts of said heat dissipating portions of said metal fins into respective slits of said metal plate;
pushing respective remaining parts of said heat dissipating portions down to a specific depth along configurations of said slits having a prescribed shape in such manner that said fins are press-connected to said metal plate.

2. (Withdrawn) A method of manufacturing a heat sink comprising the steps of:
preparing a metal plate having a plurality of slits each having a prescribed shape including a curved portion and a plurality of metal fins each having a heat receiving portion and a heat dissipating portion;
inserting respective one end portions in a longitudinal direction of said heat dissipating portions into respective said curved portions of said slits;
pushing respective remaining parts of said heat dissipating portions down to a specific depth along configurations of said slits using elasticity of said heat dissipating portions in such manner that said fins are press-connected to said metal plate.

3. (Withdrawn) The method as claimed in claim 1, which further comprises the step of plastic-deforming said metal plate in both sides of the respective parts of the heat dissipating portions which are inserted into said slits and press-connected to said metal plate to fix said fins to said metal plate.

4. (Withdrawn) The method as claimed in claim 1, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective one end portions in a longitudinal direction with remaining portions paralleled each other.

5. (Withdrawn) The method as claimed in claim 1, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective both end portions in a longitudinal direction with center portions paralleled each other.

6. (Withdrawn) The method as claimed in claim 4, wherein said heat dissipating portions are placed in parallel and pushed down into said slits in such manner that respective heat receiving portions of said metal fins form a single heat receiving face as a whole.

7. (Withdrawn) The method as claimed in claim 6, wherein said heat sink includes a fin fixing member to transfix said heat dissipating portions placed in parallel, and said heat dissipating portions fixed by said fin fixing member are pushed into said slits until an upper end portion of said fin fixing member contacts with a lower face of said metal plate.

8. (Cancelled)

9. (Currently amended) A heat sink comprising:

a plurality of plate-like metal fins comprising a heat dissipating elastic portion, said fins being linear or bent along a specific configuration and a heat receiving portion;

a fin fixing member to transfix said plurality of metal fins;

a metal shield plate having a plurality of slits including linear and/or curved portions into which said respective fins are inserted along said slits, and press-connected to said fins by forming a first concave portion on a top side of said metal shield plate, a second concave

portion on a bottom side of said metal shield plate, and an enlarged portion at the edge of said metal shield plate ~~on a top side and a bottom side of said metal shield plate,~~ wherein said first concave portion is aligned with said second concave portion ~~are opposed to each other~~ at a given position on the metal shield plate; and

a deformed portion of said metal shield plate being fixed with said heat dissipating portions which are inserted into said respective slits and fixed thereto;

wherein each of said slits has a substantially same width corresponding to a thickness of said fins such that said slits are substantially filled by said fins.

10. (Currently amended) The heat sink as claimed in claim 9, wherein ~~each of said slits has a substantially same width corresponding to a thickness of said fins across the metal shield plate,~~ and each of said slits extends toward respective one end portion of said metal shield plate in a longitudinal direction with remaining portions parallel with each other.

11. (Currently amended) The heat sink as claimed in claim 9, wherein ~~each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal shield plate,~~ and each of said slits spreads toward respective both end portions of said metal shield plate in a longitudinal direction with center portions parallel with each other.

12. (Currently amended) The heat sink as claimed in claim 9, wherein ~~each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal shield plate,~~ and each of said slits is parallel with each other in a longitudinal direction.

13. (Previously presented) The heat sink as claimed in claim 9, wherein each of said heat receiving portion and said heat dissipating portion of said fins constitutes a rectangular flat plate portion.

14. (Previously presented) The heat sink as claimed in claim 9, wherein said plurality of fins are placed in parallel in such a manner that respective heat receiving portions of said fins form a single heat receiving face as a whole.

15. (Previously presented) The heat sink as claimed in claim 9, wherein said fin fixing member comprises a heat pipe.

16. (Withdrawn) The method as claimed in claim 2, which further comprises the step of plastic-deforming said metal plate in both sides of the respective parts of the heat dissipating portions which are inserted into said slits and press-connected to said metal plate to fix said fins to said metal plate.

17. (Withdrawn) The method as claimed in claim 2, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective one end portions in a longitudinal direction with remaining portions paralleled each other.

18. (Withdrawn) The method as claimed in claim 2, wherein each of said slits has a substantially same width corresponding to a thickness of said heat dissipating portion across the metal plate, and each of said slits spreads toward respective both end portions in a longitudinal direction with center portions paralleled each other.

19. (New) A heat sink comprising:
a plurality of metal fins including a heat receiving portion and heat dissipating plate-like portions thermally coupled to, extending from, and standing over said heat receiving portion;
a fin fixing member to transfix said plurality of metal fins; and

a metal shield plate having a plurality of slits into which said respective heat dissipating plate-like portions are inserted and press-connected thereto in such a manner that said slits of the metal shield plate are substantially filled by material of said heat dissipating plate-like portions, whereby said metal shield plate in combination with said heat dissipating plate-like portions substantially filling said slits of said metal shield plate not only provides a heat dissipation structure but also provides an electromagnetic shield.